#### (19) World Intellectual Property Organization

International Bureau



## 

## (43) International Publication Date 6 January 2005 (06.01.2005)

**PCT** 

# (10) International Publication Number WO 2005/001361 A1

(51) International Patent Classification<sup>7</sup>: H05B 3/66

F27D 11/02,

(21) International Application Number:

PCT/SE2004/001019

(22) International Filing Date:

23 June 2004 (23.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

SE

(30) Priority Data: 0301930-4

27 June 2003 (27.06.2003)

(71) Applicant (for all designated States except US): SAND-VIK AB [SE/SE]; S-811 81 Sandviken (SE).

(72) Inventors; and

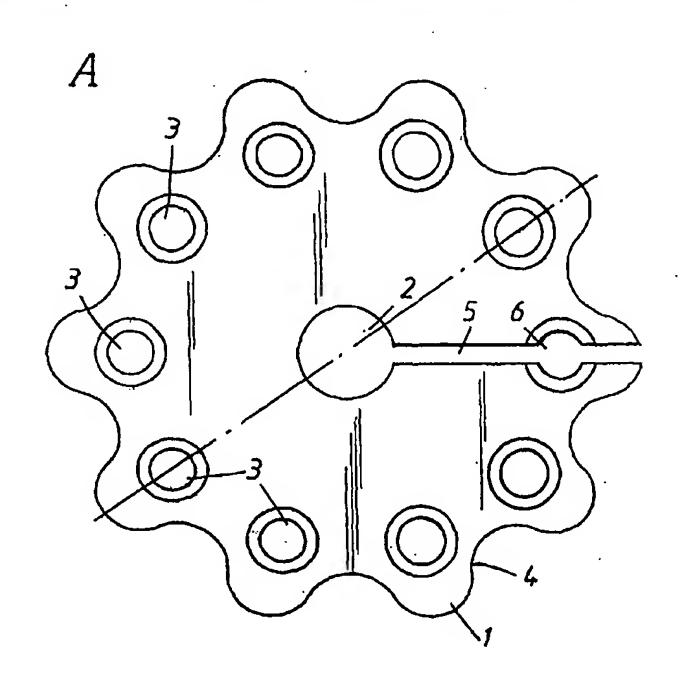
(75) Inventors/Applicants (for US only): LEWIN, Thomas

[SE/SE]; Bergslagsvägen 227, S-734 40 Hallstahammar (SE). KRÖNERT, Anke [SE/SE]; Åkestavägen 7, S-730 50 Skultuna (SE). LINDÉN, Sune [—/SE]; Rannklovsvägen 1, S-725 92 Västeräs (SE).

- (74) Agents: ÖRTENBLAD, Bertil et al.; Noréns Patenbyrå AB, Box 10198, S-100 55 Stockholm (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

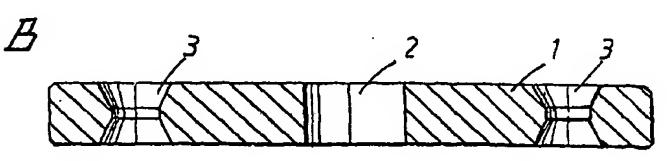
(54) Title: IMPROVED HEAT CONDUCTOR SUPPORT DISC.



(57) Abstract: A ceramic heat conductor support disc for supporting an electrical heating element for electrically heated furnace installations, said support disc having a centre aperture (2) lying parallel to the longitudinal axis of the heating element and one or more apertures (3,6,10-15) located between said centre aperture (2) and the periphery (4) of the disc (1). The invention is characterized in, that the disc (1) is provided with one or more elongated openings (5,7,8,9,16,17) running from said periphery (4) to one of said apertures (3,6,10-15) and/or the centre aperture (2), where each elongated opening penetrates the whole thickness of said disc (1).

9

WO 2005/001361 A1



### WO 2005/001361 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.